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APPENDIX 1

DATA OF WORK INJURIES IN THAILAND, 2000

Table 1.1: Work injuries in Thailand by severity, 1976-2000

| Year | Death (cases) | Permanent disability | | Temporary disability (cases) | Total(cases) | Rate per 1,000 workers |
|------|------------------|----------------------|--------------------|------------------------------------|--------------|------------------------------|
| | | total (cases) | partial (cases) | | | |
| 1976 | 323 | 18 | 1,085 | 7,014 | 8,440 | 16.99 |
| 1977 | 366 | 23 | 1,376 | 14,422 | 16,187 | 28.40 |
| 1978 | 376 | 30 | 1,437 | 18,217 | 20,060 | 33.96 |
| 1979 | 397 | 32 | 1,502 | 22,688 | 24,619 | 37.36 |
| 1980 | 395 | 27 | 1,454 | 23,692 | 25,568 | 34.30 |
| 1981 | 425 | 31 | 1,481 | 26,545 | 28,482 | 35.72 |
| 1982 | 411 | 37 | 1,256 | 28,285 | 29,989 | 36.37 |
| 1983 | 346 | 23 | 695 | 33,864 | 34,928 | 40.01 |
| 1984 | 444 | 40 | 1,496 | 39,076 | 41,056 | 41.30 |
| 1985 | 402 | 42 | 1,359 | 38,618 | 40,421 | 37.04 |
| 1986 | 363 | 36 | 1,206 | 36,805 | 38,410 | 32.56 |
| 1987 | 393 | 43 | 1,375 | 41,833 | 43,644 | 35.41 |
| 1988 | 352 | 37 | 1,468 | 48,017 | 49,874 | 37.05 |
| 1989 | 442 | 30 | 1,847 | 61,538 | 63,857 | 38.43 |
| 1990 | 634 | 32 | 1,504 | 77,617 | 79,787 | 43.67 |
| 1991 | 665 | 18 | 2,408 | 100,205 | 103,296 | 37.54 |
| 1992 | 740 | 15 | 2,010 | 129,035 | 131,800 | 43.64 |
| 1993 | 980 | 10 | 5,436 | 150,122 | 156,548 | 46.65 |
| 1994 | 816 | 13 | 4,406 | 180,818 | 186,053 | 43.87 |
| 1995 | 940 | 17 | 5,469 | 209,909 | 216,335 | 44.12 |
| 1996 | 962 | 18 | 5,042 | 239,594 | 245,616 | 45.27 |
| 1997 | 1,041 | 34 | 5,305 | 224,066 | 230,446 | 39.54 |
| 1998 | 790 | 19 | 3,714 | 181,975 | 186,498 | 36.24 |
| 1999 | 611 | 12 | 3,396 | 167,978 | 171,997 | 32.32 |
| 2000 | 620 | 16 | 3,516 | 175,414 | 179,566 | 33.15 |

Source: 1. The Office of Workmen's Compensation Fund

2. Year book of labour statistics, Department of Labour Protection and Welfare

Table 1.2: Work injuries in Thailand by severity and size of establishment, 2000

Unit: cases

| Size | Death | Permanent disability | | Temporary disability | | Total |
|--------------|------------|----------------------|--------------|----------------------|----------------|----------------|
| | | total | partial | > 3 days | ≤ 3 days | |
| 1-4 | 4 | 0 | 12 | 114 | 175 | 305 |
| 5-9 | 16 | 2 | 50 | 549 | 1,018 | 1,635 |
| 10-19 | 77 | 0 | 285 | 3,211 | 6,792 | 10,365 |
| 20-49 | 135 | 4 | 603 | 7,469 | 18,590 | 26,801 |
| 50-59 | 107 | 2 | 479 | 6,376 | 17,229 | 24,193 |
| 100-199 | 103 | 2 | 607 | 8,226 | 22,893 | 31,831 |
| 200-499 | 101 | 5 | 743 | 10,864 | 30,324 | 42,037 |
| 500-999 | 32 | 1 | 393 | 5,451 | 14,643 | 20,520 |
| 1000+ | 45 | 0 | 344 | 6,078 | 15,412 | 21,879 |
| Total | 620 | 16 | 3,516 | 48,338 | 127,076 | 179,566 |

Source: The Office of Workmen's Compensation Fund

Table 1.3: Top - five provinces with highest work injury cases, 2000

| Rank | Province | Work injury | |
|------|-----------------|-------------|------------|
| | | cases | percentage |
| 1 | Bangkok | 44,068 | 24.54 |
| 2 | Samut Prakan | 41,231 | 22.96 |
| 3 | Samut Sakhorn | 16,558 | 9.24 |
| 4 | Cholburi | 8,076 | 4.50 |
| 5 | Nakhorn Prathom | 7,242 | 4.03 |

Source: The Office of Workmen's Compensation Fund

Table 1.4: Top- five provinces with highest work injury rates, 2000

| Rank | Province | Work injury | |
|------|----------------|-------------|----------|
| | | cases | rate(%) |
| 1 | Samut Prakan | 41,231 | 7.48 |
| 2 | Samut Sakhon | 16,558 | 6.41 |
| 3 | Nakhon Sawan | 1,391 | 5.23 |
| 4 | Nakhon Prathom | 7,242 | 5.20 |
| 5 | Trang | 1,550 | 5.14 |

Source: The Office of Workmen's Compensation Fund

Table 1.5: Top-five establishments with highest work injuries, 2000

| Rank | Types of establishment | Work injury | |
|------|----------------------------|-------------|------------|
| | | cases | percentage |
| 1 | Construction | 12,226 | 6.81 |
| 2 | Beverage and Foods | 11,599 | 6.46 |
| 3 | Machining Spin and Weaving | 10,283 | 5.73 |
| 4 | Wooden furniture products | 9,572 | 5.33 |
| 5 | Plastic products | 9,191 | 5.12 |

Source: The Office of Workmen's Compensation Fund

Table 1.6: Work injuries classified by severity and causes of injury, 2000

Unit: cases

| Causes of Injury | Death | Permanent disability | | Temporary disability | |
|---|-------|----------------------|---------|----------------------|----------|
| | | total | partial | > 3 days | ≤ 3 days |
| 1. Equipment | 0 | 0 | 379 | 6,495 | 14,890 |
| 2. Machine | 31 | 2 | 2,205 | 11,002 | 12,047 |
| 3. Building | 64 | 5 | 26 | 2,090 | 2,874 |
| 4. Object or material | 51 | 1 | 738 | 19,920 | 66,692 |
| 5. Ergonomics | 0 | 0 | 15 | 1,337 | 8,303 |
| 6. Vehicles | 344 | 6 | 85 | 2,873 | 2,454 |
| 7. Explosion (except gas) | 0 | 0 | 1 | 4 | 8 |
| 8. Gas | 0 | 0 | 0 | 149 | 205 |
| 9. Boiler and pressure tank | 0 | 0 | 0 | 78 | 103 |
| 10. Electric and electrical instruments | 71 | 2 | 30 | 659 | 1,093 |
| 11. Toxic substance or chemicals | 6 | 0 | 6 | 954 | 9,283 |
| 12. Work environment | 19 | 0 | 26 | 2,210 | 7,516 |
| 13. Natural disaster | 3 | 0 | 0 | 5 | 8 |
| 14. Disease | 1 | 0 | 0 | 2 | 60 |
| 15. Human and animal | 18 | 0 | 3 | 157 | 584 |
| 16. Others | 12 | 0 | 2 | 403 | 956 |

Source: The Office of Workmen's Compensation Fund

Table 1.7: Work injuries or diseases by severity and its natures, 2000

Unit: cases

| Nature of Injuries | Death | Permanent disability | | Temporary disability | |
|--|------------|----------------------|--------------|----------------------|----------------|
| | | total | partial | > 3 days | ≤ 3 days |
| A. Work accident | 616 | 16 | 3,497 | 46,602 | 114,521 |
| 1. Fell from a height | 66 | 5 | 25 | 2,586 | 3,280 |
| 2. Fell over or slipped | 3 | 0 | 8 | 1,337 | 3,040 |
| 3. Injured by fallen building | 5 | 0 | 1 | 66 | 59 |
| 4. Injured by falling object | 37 | 2 | 1,063 | 11,296 | 17,305 |
| 5. Injured by thrown object | 25 | 0 | 646 | 7,669 | 18,217 |
| 6. Being pressed or pulled by object | 13 | 1 | 792 | 4,834 | 5,352 |
| 7. Cut or wounded by sharp material | 4 | 0 | 826 | 12,479 | 29,936 |
| 8. Foreign material in eye-eye injury | 0 | 0 | 26 | 1,329 | 27,989 |
| 9. Car accidents | 333 | 6 | 63 | 2,281 | 1,673 |
| 10. Injured by explosion | 8 | 0 | 5 | 279 | 410 |
| 11. Electric shock | 71 | 2 | 15 | 460 | 704 |
| 12. Burns from exposure to hot objects / materials | 12 | 0 | 20 | 1,653 | 2,816 |

Table 1.7: Work injuries or diseases by severity and its natures, 2000 (Cont.)

Unit: cases

| Nature of Injuries | Death | Permanent disability | | Temporary disability | |
|---|------------|----------------------|--------------|----------------------|----------------|
| | | total | partial | > 3 days | ≤ 3 days |
| 13. Injured by extreme cold / freezing materials | 0 | 0 | 0 | 3 | 8 |
| 14. Injured / burned by exposure to light (other than radiation) | 0 | 0 | 1 | 89 | 2,728 |
| 15. Other Physical injuries | 14 | 0 | 0 | 44 | 24 |
| 16. Animal attacks | 5 | 0 | 3 | 95 | 515 |
| 17. Others | 20 | 0 | 3 | 102 | 465 |
| B. Occupational diseases | 4 | 0 | 19 | 1,736 | 1,255 |
| Total | 620 | 16 | 3,516 | 48,338 | 127,076 |

Source: The Office of Workmen's Compensation Fund

Table 1.8: Work injuries classified by severity and injured organs, 2000

Unit: cases

| Injured Organs | Death | Permanent disability | | Temporary disability | |
|--|-------|----------------------|---------|----------------------|----------|
| | | total | partial | > 3 days | ≤ 3 days |
| 1. Head | 91 | 1 | 12 | 878 | 3,999 |
| 2. Eyes | 0 | 1 | 44 | 1,833 | 32,501 |
| 3. Noses | 0 | 0 | 0 | 140 | 416 |
| 4. Ears | 0 | 0 | 7 | 54 | 315 |
| 5. Mouth, teeth and other parts in mouth | 0 | 0 | 1 | 118 | 677 |
| 6. Face, cheek, eyebrow, chin, jaw, neck | 19 | 0 | 0 | 805 | 4,177 |
| 7. Shoulder, shoulder blade, armpit | 0 | 0 | 5 | 474 | 1,480 |
| 8. Arm, elbow | 0 | 2 | 62 | 2,367 | 6,638 |
| 9. Wrist | 0 | 0 | 27 | 1,191 | 2,647 |
| 10. Hand | 0 | 0 | 238 | 4,484 | 8,923 |
| 11. Finger | 1 | 1 | 2,830 | 19,708 | 30,289 |
| 12. Chest and organs in abdomen | 13 | 0 | 5 | 257 | 1,434 |
| 13. Stomach and organs in abdomen | 6 | 0 | 1 | 141 | 282 |
| 14. Rib | 0 | 0 | 2 | 232 | 635 |

Table 1.8: Work injuries classified by severity and injured organs, 2000 (Cont.)

Unit: cases

| Injured Organs | Death | Permanent disability | | Temporary disability | |
|-----------------------------|-------|----------------------|---------|----------------------|----------|
| | | total | partial | > 3 days | ≤ 3 days |
| 15. Waist | 0 | 0 | 0 | 90 | 299 |
| 16. Back | 0 | 3 | 4 | 933 | 5,453 |
| 17. Backbone | 0 | 1 | 2 | 182 | 84 |
| 18. Hip, bottom, the pelvis | 1 | 1 | 1 | 241 | 438 |
| 19. Vulva | 0 | 0 | 0 | 39 | 49 |
| 20. Leg, shank | 3 | 2 | 21 | 1,965 | 4,106 |
| 21. Knee | 1 | 0 | 3 | 795 | 2,043 |
| 22. Ankle | 0 | 0 | 9 | 1,080 | 1,788 |
| 23. Foot | 0 | 0 | 46 | 3,803 | 7,564 |
| 24. Toe | 0 | 0 | 102 | 2,743 | 4,492 |
| 25. Several parts | 471 | 4 | 94 | 3,766 | 6,173 |
| 26. The circulation | 7 | 0 | 0 | 12 | 76 |
| 27. Others | 7 | 0 | 0 | 7 | 98 |

Source: The Office of Workmen's Compensation Fund

APPENDIX 2

DATA FOR ESTIMATING ECONOMIC LOSS

Table 2.1: Population from registration by age in Thailand, 2000

| Age | No. | Age | No. | Age | No. | Age | No. |
|-------|-----------|-----|-----------|--------------------------|---------|------|------------|
| <1 | 742,750 | 27 | 1,094,618 | 54 | 461,537 | 78 | 100,090 |
| 1 | 817,762 | 28 | 1,137,255 | 55 | 412,705 | 79 | 98,468 |
| 2 | 879,832 | 29 | 1,156,202 | 56 | 431,863 | 80 | 85,691 |
| 3 | 951,813 | 30 | 1,134,727 | 57 | 376,252 | 81 | 58,692 |
| 4 | 970,241 | 31 | 1,120,514 | 58 | 422,662 | 82 | 66,948 |
| 5 | 966,588 | 32 | 1,162,804 | 59 | 380,037 | 83 | 56,192 |
| 6 | 941,684 | 33 | 1,112,205 | 60 | 370,300 | 84 | 58,775 |
| 7 | 950,262 | 34 | 1,093,488 | 61 | 376,441 | 85 | 38,256 |
| 8 | 966,477 | 35 | 1,106,040 | 62 | 371,191 | 86 | 38,954 |
| 9 | 960,868 | 36 | 1,110,266 | 63 | 341,969 | 87 | 30,401 |
| 10 | 949,054 | 37 | 1,039,313 | 64 | 343,001 | 88 | 24,779 |
| 11 | 909,670 | 38 | 1,020,844 | 65 | 306,770 | 89 | 25,552 |
| 12 | 892,503 | 39 | 974,359 | 66 | 306,203 | 90 | 17,815 |
| 13 | 889,907 | 40 | 980,555 | 67 | 284,952 | 91 | 16,694 |
| 14 | 922,839 | 41 | 943,185 | 68 | 281,602 | 92 | 13,910 |
| 15 | 968,760 | 42 | 865,195 | 69 | 238,978 | 93 | 10,596 |
| 16 | 977,744 | 43 | 851,527 | 70 | 233,758 | 94 | 11,750 |
| 17 | 1,007,319 | 44 | 856,238 | 71 | 205,586 | 95 | 7,131 |
| 18 | 1,045,423 | 45 | 821,618 | 72 | 214,790 | 96 | 8,053 |
| 19 | 1,047,599 | 46 | 721,526 | 73 | 167,833 | 97 | 5,563 |
| 20 | 1,073,972 | 47 | 714,862 | 74 | 171,439 | 98 | 5,458 |
| 21 | 1,076,284 | 48 | 683,911 | 75 | 139,111 | 99 | 5,209 |
| 22 | 1,051,592 | 49 | 636,706 | 76 | 121,855 | 100 | 3,860 |
| 23 | 1,106,740 | 50 | 633,332 | 77 | 122,004 | 101+ | 35,379 |
| 24 | 1,107,784 | 51 | 588,481 | unknown | | | 569,523 |
| 25 | 1,087,016 | 52 | 531,551 | living in central houses | | | 1,809,999 |
| 26 | 1,111,571 | 53 | 503,519 | not-Thai nationality | | | 623,274 |
| Total | | | | | | | 61,878,746 |

Source: Department of Local Administration, Ministry of Interior

Table 2.2: Number of death in Thai population by age-sex, 2000

| Age | Male | Female | Total |
|--------------|----------------|----------------|----------------|
| Under 1 | 2,773 | 2,049 | 4,822 |
| 1 | 998 | 845 | 1,843 |
| 2 | 533 | 371 | 904 |
| 3 | 505 | 330 | 835 |
| 4 | 500 | 320 | 820 |
| 5-9 | 1,944 | 1,302 | 3,246 |
| 10-14 | 1,361 | 861 | 2,222 |
| 15-19 | 4,694 | 1,595 | 6,289 |
| 20-24 | 7,860 | 3,403 | 11,263 |
| 25-29 | 14,867 | 6,488 | 21,355 |
| 30-34 | 18,106 | 6,193 | 24,299 |
| 35-39 | 15,516 | 5,782 | 21,298 |
| 40-44 | 13,635 | 5,929 | 19,564 |
| 45-49 | 12,647 | 6,705 | 19,352 |
| 50-54 | 12,486 | 7,376 | 19,862 |
| 55-59 | 12,947 | 8,532 | 21,479 |
| 60-64 | 15,863 | 11,461 | 27,324 |
| 65-69 | 17,744 | 14,185 | 31,929 |
| 70+ | 58,284 | 67,212 | 125,496 |
| unknown | 644 | 895 | 1,539 |
| Total | 213,907 | 151,834 | 365,741 |

Source: Department of Local Administration, Ministry of Interior

Table 2.3: Thailand labor force participation rate by age group, 2000

| | Round 2/43 (%) | Round 3/43 (%) | Round4/43 (%) | Average (%) |
|--------------|-------------------|-------------------|------------------|----------------|
| 13-14 | 8.1 | 7.9 | 8.8 | 8.27 |
| 15-19 | 34.5 | 34.5 | 35.1 | 34.70 |
| 20-24 | 72.1 | 71.9 | 70.3 | 71.43 |
| 25-29 | 86.5 | 87.2 | 85.3 | 86.33 |
| 30-34 | 89 | 89.5 | 87.7 | 88.73 |
| 35-39 | 89.9 | 90.8 | 88.9 | 89.87 |
| 40-49 | 87.5 | 89.8 | 87.7 | 88.33 |
| 50-59 | 77.3 | 81.3 | 78 | 78.87 |
| 60+ | 31.7 | 33.6 | 32.3 | 32.53 |
| Total | 68.5 | 69.7 | 68.2 | 68.8 |

Sources: Report of Thailand Labour Force Survey, NSO

Table 2.4: Average family monthly income by region

Unit: baht

| Region | Household income | Per capita income |
|----------------------|---------------------|----------------------|
| Bangkok and vicinity | 25,242 | 7,794 |
| Central | 13,012 | 3,715 |
| North | 8,652 | 2,538 |
| Northeast | 7,765 | 1,990 |
| South | 11,186 | 2,897 |
| Nationwide | 12,150 | 3,358 |

Source: Report of the Household Socio-Economic Survey, NSO

Table 2.5: Thailand National Income (NI) and compensation of employees,
1980-2000

| Year | National Income (NI) | | Compensation of employees | |
|------|----------------------|------------|---------------------------|------------|
| | million baht | growth (%) | million baht | growth (%) |
| 1980 | 534,196 | 20.41 | 171,561 | 24.63 |
| 1981 | 609,012 | 14.01 | 198,172 | 15.51 |
| 1982 | 678,169 | 11.36 | 233,235 | 17.69 |
| 1983 | 737,344 | 8.73 | 261,644 | 12.18 |
| 1984 | 778,357 | 5.56 | 277,252 | 5.97 |
| 1985 | 831,975 | 6.89 | 294,853 | 6.35 |
| 1986 | 978,915 | 17.66 | 309,794 | 5.07 |
| 1987 | 1,011,343 | 3.31 | 343,902 | 11.01 |
| 1988 | 1,198,771 | 18.53 | 393,083 | 14.30 |
| 1989 | 1,440,089 | 20.13 | 456,526 | 16.14 |
| 1990 | 1,672,858 | 16.16 | 514,738 | 12.75 |
| 1991 | 1,910,448 | 14.20 | 626,789 | 21.77 |
| 1992 | 2,149,456 | 12.51 | 736,181 | 17.45 |
| 1993 | 2,402,775 | 11.79 | 884,453 | 20.14 |
| 1994 | 2,740,555 | 14.06 | 1,012,733 | 14.50 |
| 1995 | 3,149,869 | 14.94 | 1,216,455 | 20.12 |
| 1996 | 3,393,983 | 7.75 | 1,352,953 | 11.22 |
| 1997 | 3,437,720 | 1.29 | 1,433,541 | 5.96 |
| 1998 | 3,311,048 | -3.68 | 1,440,186 | 0.46 |
| 1999 | 3,330,247 | 0.58 | 1,450,914 | 0.74 |
| 2000 | 3,615,313 | 8.56 | 1,542,959 | 6.34 |
| | Average | 10.3 | Average | 12.1 |

Source: 1. The Office of National Economic and Social Development Board
2. National Statistical Office

Table 2.6: Average wages, earning of private employees by region and wage type, 2000

Unit: baht

| | Total | | Daily | | Monthly | | Piecework | |
|----------------------------------|-------|---------|-------|---------|---------|---------|-----------|---------|
| | wages | earning | wages | earning | wages | earning | wages | earning |
| Bangkok | 9,184 | 10,150 | 142 | 149 | 10,789 | 12,018 | 6,767 | 7,125 |
| Bangkok' surrounding vicinity | 6,635 | 7,507 | 171 | 195 | 9,174 | 10,386 | 5,359 | 5,683 |
| Central | 4,711 | 5,124 | 145 | 152 | 6,520 | 7,531 | 4,436 | 4,463 |
| North | 3,661 | 3,791 | 119 | 120 | 5,167 | 5,652 | 3,480 | 3,492 |
| Northeast | 3,580 | 3,754 | 122 | 124 | 4,637 | 5,176 | 3,574 | 3,595 |
| South | 4,591 | 4,960 | 153 | 157 | 5,506 | 6,244 | 3,826 | 3,909 |
| Nationwide | 5,536 | 6,029 | 142 | 129 | 8,143 | 9,138 | 4,271 | 4,351 |

Source: Wages, Earning and Hours of Work, 2000. Labour Statistics Branch, Labour Studies and Planning Division, MOLSW

APPENDIX 3

DATA FOR REGRESSION ANALYSIS

Table 3.1: Thailand Gross Domestic Product (GDP) at current market prices

| Year | GDP (million) | Agriculture (million) | Non –agri (million) | GDP change (%) | non-agri (%) |
|------|------------------|--------------------------|------------------------|-------------------|-----------------|
| 1981 | 760,356 | 162,390 | 597,966 | 14.80 | 78.64 |
| 1982 | 841,569 | 156,098 | 685,471 | 10.68 | 81.45 |
| 1983 | 920,989 | 184,752 | 736,237 | 9.44 | 79.94 |
| 1984 | 988,070 | 173,642 | 814,428 | 7.28 | 82.43 |
| 1985 | 1,056,496 | 167,026 | 889,470 | 6.93 | 84.19 |
| 1986 | 1,133,397 | 177,537 | 955,860 | 7.28 | 84.34 |
| 1987 | 1,299,913 | 204,521 | 1,095,392 | 14.69 | 84.27 |
| 1988 | 1,559,804 | 252,346 | 1,307,458 | 19.99 | 83.82 |
| 1989 | 1,856,477 | 279,690 | 1,576,787 | 19.02 | 84.93 |
| 1990 | 2,182,100 | 279,081 | 1,903,019 | 17.54 | 87.21 |
| 1991 | 2,509,427 | 321,356 | 2,188,071 | 15.00 | 87.19 |
| 1992 | 2,830,914 | 348,127 | 2,482,787 | 12.81 | 87.70 |
| 1993 | 3,165,222 | 320,051 | 2,845,171 | 11.81 | 89.89 |
| 1994 | 3,629,341 | 383,198 | 3,246,143 | 14.66 | 89.44 |
| 1995 | 4,186,212 | 458,975 | 3,727,237 | 15.34 | 89.04 |
| 1996 | 4,611,041 | 505,031 | 4,106,010 | 10.15 | 89.05 |
| 1997 | 4,732,610 | 513,991 | 4,218,619 | 2.64 | 89.14 |
| 1998 | 4,626,447 | 564,879 | 4,061,568 | -2.24 | 87.79 |
| 1999 | 4,632,132 | 497,149 | 4,134,983 | 0.12 | 89.27 |
| 2000 | 4,904,725 | 504,513 | 4,400,212 | 5.88 | 89.71 |

Sources: 1. The Office of National Economic and Social Development Board
2. National Statistical Office

Table 3.2: Thailand Gross Domestic Product (GDP) at constant 1988 prices

| Year | GDP (million) | Agriculture (million) | Non-agri. (million) | GDP change (%) | Percentage of non-agri. |
|--------|------------------|--------------------------|------------------------|-------------------|----------------------------|
| 1981 | 967,706 | 194,023 | 773,683 | | 79.95 |
| 1982 | 1,019,501 | 198,825 | 820,676 | 5.4 | 80.50 |
| 1983 | 1,076,432 | 208,312 | 868,120 | 5.6 | 80.65 |
| 1984 | 1,138,353 | 217,518 | 920,835 | 5.8 | 80.89 |
| 1985 | 1,191,255 | 227,323 | 963,932 | 4.6 | 80.92 |
| 1986 | 1,257,177 | 228,191 | 1,028,986 | 5.5 | 81.85 |
| 1987 | 1,376,847 | 228,346 | 1,148,501 | 9.5 | 83.42 |
| 1988 | 1,559,804 | 252,346 | 1,307,458 | 13.3 | 83.82 |
| 1989 | 1,751,515 | 276,729 | 1,474,786 | 12.3 | 84.20 |
| 1990 | 1,954,229 | 266,414 | 1,687,815 | 11.6 | 86.37 |
| 1991 | 2,111,863 | 282,740 | 1,829,123 | 8.1 | 86.61 |
| 1992 | 2,282,572 | 296,277 | 1,986,295 | 8.1 | 87.02 |
| 1993 | 2,470,908 | 289,065 | 2,181,843 | 8.3 | 88.30 |
| 1994 | 2,692,973 | 303,376 | 2,389,597 | 9.0 | 88.73 |
| 1995 | 2,941,736 | 313,855 | 2,627,881 | 9.2 | 89.33 |
| 1996 | 3,115,338 | 326,836 | 2,788,502 | 5.9 | 89.51 |
| 1997 | 3,072,615 | 323,884 | 2,748,731 | -1.4 | 89.46 |
| 1998 | 2,749,684 | 318,953 | 2,430,731 | -10.5 | 88.40 |
| 1999 | 2,871,521 | 325,491 | 2,546,030 | 4.4 | 88.66 |
| 2000 p | 3,004,659 | 341,551 | 2,663,108 | 4.6 | 88.63 |

Sources: 1. The Office of National Economic and Social Development Board
2. National Statistical Office

Table 3.3: Total workplaces and workplaces have been inspected, 1981 -2000

| Year | Total workplaces | Total workers | Safety inspected | | |
|------|------------------|---------------|------------------|------|--------|
| | | | MOLSW | MOH | Total |
| 1981 | NA | NA | NA | NA | NA |
| 1982 | NA | NA | NA | NA | NA |
| 1983 | 122,966 | 1,710,220 | NA | NA | NA |
| 1984 | NA | NA | NA | NA | NA |
| 1985 | NA | NA | NA | NA | NA |
| 1986 | 126,154 | 1,772,767 | NA | NA | NA |
| 1987 | 141,871 | 2,144,853 | 2,549 | NA | 2,549 |
| 1988 | 149,611 | 2,494,702 | NA | NA | NA |
| 1989 | 162,395 | 2,962,025 | NA | NA | NA |
| 1990 | 200,398 | 3,219,046 | 3,063 | NA | 3,063 |
| 1991 | NA | NA | 2,036 | NA | 2,036 |
| 1992 | 228,570 | 4,416,780 | 4,306 | 5018 | 9,324 |
| 1993 | 239,678 | 4,911,787 | 9,542 | 3738 | 13,280 |
| 1994 | 266,061 | 5,920,350 | 10,701 | 3909 | 14,610 |
| 1995 | 291,931 | 6,779,717 | 11,197 | 4561 | 15,758 |
| 1996 | 318,660 | 7,333,665 | 12,325 | 4680 | 17,005 |
| 1997 | 338,501 | 7,690,700 | 11,079 | 4260 | 15,339 |
| 1998 | 344,392 | 7,600,997 | 9,555 | 3504 | 13,059 |
| 1999 | 362,683 | 8,134,644 | 13,875 | 2924 | 16,799 |
| 2000 | 343,576 | 7,807,367 | 18,182 | 4466 | 22,648 |

Sources: 1. Department of Labour Protection and Welfare, MOLSW
2. Occupational Health Division, Department of Health, MOPH

Table 3.4: Workers under covered by WCF and work injuries, 1981-2000

| year | Workers under covered | Death | Permanent disability | | Temporary disability | | Total injury | Injury rate per1000 |
|------|-----------------------|-------|----------------------|---------|----------------------|---------|--------------|---------------------|
| | | | total | partial | > 3 d. | ≤ 3 d. | | |
| 1981 | 797,270 | 425 | 31 | 1,481 | 26,545 | | 28,482 | 35.72 |
| 1982 | 824,565 | 411 | 37 | 1,256 | 28,285 | | 29,989 | 36.37 |
| 1983 | 873,059 | 346 | 23 | 695 | 33,864 | | 34,928 | 40.01 |
| 1984 | 994,109 | 444 | 40 | 1,496 | 39,076 | | 41,056 | 41.30 |
| 1985 | 1,091,318 | 402 | 42 | 1,359 | 38,618 | | 40,421 | 37.04 |
| 1986 | 1,179,812 | 363 | 36 | 1,206 | 36,805 | | 38,410 | 32.56 |
| 1987 | 1,232,555 | 393 | 43 | 1,375 | 18,580 | 23,253 | 43,644 | 35.41 |
| 1988 | 1,346,203 | 352 | 37 | 1,468 | 21,428 | 26,589 | 49,874 | 37.05 |
| 1989 | 1,661,651 | 442 | 30 | 1,847 | 25,084 | 36,454 | 63,857 | 38.43 |
| 1990 | 1,826,955 | 634 | 32 | 1,504 | 30,338 | 47,279 | 79,787 | 43.67 |
| 1991 | 2,751,868 | 665 | 18 | 2,408 | 39,332 | 60,873 | 103,296 | 37.54 |
| 1992 | 3,020,415 | 740 | 15 | 2,010 | 50,248 | 78,787 | 131,800 | 43.64 |
| 1993 | 3,355,805 | 980 | 10 | 5,436 | 53,023 | 97,099 | 156,548 | 46.65 |
| 1994 | 4,248,414 | 863 | 23 | 4548 | 61509 | 119,451 | 186,394 | 43.87 |
| 1995 | 4,903,736 | 940 | 17 | 5,469 | 67,626 | 142,283 | 216,335 | 44.12 |
| 1996 | 5,425,422 | 962 | 18 | 5,042 | 78,829 | 160,765 | 245,616 | 45.27 |
| 1997 | 5,825,821 | 1,033 | 29 | 5,272 | 68,480 | 155,562 | 230,376 | 39.54 |
| 1998 | 5,145,835 | 790 | 19 | 3,714 | 55,489 | 126,486 | 186,498 | 36.24 |
| 1999 | 5,321,872 | 611 | 12 | 3,396 | 50,239 | 117,739 | 171,997 | 32.32 |
| 2000 | 5,417,041 | 620 | 16 | 3,516 | 48,338 | 127,076 | 179,566 | 33.15 |

Source: Department of Labour Protection and Welfare, MOLSW

Table 3.5: Operational budget allocated to occupational and safety, 1981-2000

Unit: baht

| Year | MOH | MOLSW | WCF | Total |
|------|------------|-------------|-----------|-------------|
| 1981 | NA | NA | 0 | NA |
| 1982 | 3,328,800 | 10,556,900 | 0 | 13,885,700 |
| 1983 | 4,159,900 | 6,309,600 | 0 | 10,469,500 |
| 1984 | 4,432,900 | 5,389,100 | 0 | 9,822,000 |
| 1985 | 4,890,000 | 6,092,000 | 0 | 10,982,000 |
| 1986 | 5,242,600 | 6,933,200 | 0 | 12,175,800 |
| 1987 | 5,743,300 | 7,601,900 | 0 | 13,345,200 |
| 1988 | 6,527,600 | 8,542,700 | 0 | 15,070,300 |
| 1989 | 7,236,900 | 9,489,000 | 0 | 16,725,900 |
| 1990 | 13,003,400 | 11,326,000 | 0 | 24,329,400 |
| 1991 | 21,391,800 | 12,219,800 | 0 | 33,611,600 |
| 1992 | 32,245,200 | 13,551,000 | 0 | 45,796,200 |
| 1993 | 40,584,400 | 21,325,200 | 0 | 61,909,600 |
| 1994 | 47,261,500 | 29,854,400 | 3,000,000 | 80,115,900 |
| 1995 | 51,926,700 | 34,639,100 | 3,000,001 | 89,565,801 |
| 1996 | 56,319,300 | 46,422,600 | 3,000,002 | 105,741,902 |
| 1997 | 65,870,300 | 71,547,200 | 3,000,003 | 140,417,503 |
| 1998 | 69,942,100 | 114,831,200 | 3,000,004 | 187,773,304 |
| 1999 | 63,752,800 | 96,003,400 | 3,000,005 | 162,756,205 |
| 2000 | 56,494,900 | 62,484,100 | 3,000,006 | 121,979,006 |

- Sources: 1. Department of Labour Protection and Social Welfare, MOLSW
2. Occupational Health Division, Department of Health, MOPH
3. The Office of Workmen's Compensation Fund
4. The Bureau of The Budget, The Office of Prime Minister

Table 3.6: Data of workplace, worker, and WCF coverage, 1977-2000

| | Workpl. | Workpl_1 | Worker | Worker_1 | Worker under WCF | WCF cover(%) |
|------|---------|----------|-----------|------------|---------------------|-----------------|
| 1977 | 35,753 | 35,753 | 1,062,062 | 1,062,062 | 570,000 | 53.67 |
| 1978 | NA | 50,289* | NA | 1,170,088* | 590,640 | 50.48 |
| 1979 | NA | 64,824* | NA | 1,278,115* | 659,041 | 51.56 |
| 1980 | NA | 79,360* | NA | 1,386,141* | 745,513 | 53.78 |
| 1981 | NA | 93,895* | NA | 1,494,167* | 797,270 | 53.36 |
| 1982 | NA | 108,431* | NA | 1,602,194* | 824,565 | 51.46 |
| 1983 | 122,966 | 122,966 | 1,710,220 | 1,710,220 | 873,059 | 51.05 |
| 1984 | NA | 124,029* | NA | 1,731,069* | 994,109 | 57.43 |
| 1985 | NA | 125,091* | NA | 1,751,918* | 1,091,318 | 62.29 |
| 1986 | 126,154 | 126,154 | 1,772,767 | 1,772,767 | 1,179,812 | 66.55 |
| 1987 | 141,871 | 141,871 | 2,144,853 | 2,144,853 | 1,232,555 | 57.47 |
| 1988 | 149,611 | 149,611 | 2,494,702 | 2,494,702 | 1,346,203 | 53.96 |
| 1989 | 162,395 | 162,395 | 2,962,025 | 2,962,025 | 1,661,651 | 56.10 |
| 1990 | 200,398 | 200,398 | 3,217,735 | 3,217,735 | 1,826,955 | 56.75 |
| 1991 | NA | 214,484* | 4,052,647 | 4,052,647 | 2,751,868 | 72.08 |
| 1992 | 228,570 | 228,570 | 4,416,780 | 4,416,780 | 3,020,415 | 68.38 |
| 1993 | 239,678 | 239,678 | 4,911,787 | 4,911,787 | 3,355,805 | 68.32 |
| 1994 | 266,061 | 266,061 | 5,920,350 | 5,920,350 | 4,248,414 | 71.76 |
| 1995 | 291,931 | 291,931 | 6,779,717 | 6,779,717 | 4,903,736 | 72.33 |
| 1996 | 318,660 | 318,660 | 7,333,665 | 7,333,665 | 5,425,422 | 73.98 |
| 1997 | 338,501 | 338,501 | 7,690,700 | 7,690,700 | 5,825,821 | 75.75 |
| 1998 | 344,392 | 344,392 | 7,600,997 | 7,600,997 | 5,145,835 | 67.70 |
| 1999 | 362,683 | 362,683 | 8,134,644 | 8,134,644 | 5,321,872 | 65.42 |
| 2000 | 343,576 | 343,576 | 7,807,367 | 7,807,367 | 5,417,041 | 69.38 |

Sources: 1. Department of Labour Protection and Social Welfare, MOLSW

2. Office of Workmen's Compensation Fund

* Estimated by linear interpolation method

Table 3.7: Data of worker in manufacturing and construction, safety inspection

| Year | Mconwk | Mconwk_1 | Mcon (%) | Inspect | Insp_1 | Ins1 (%) |
|------|---------|----------|----------|---------|--------|----------|
| 1977 | . | . | | | | |
| 1978 | . | . | | | | |
| 1979 | . | . | | | | |
| 1980 | . | . | | | | |
| 1981 | . | . | | . | | . |
| 1982 | . | . | | . | | . |
| 1983 | . | . | | . | | . |
| 1984 | . | . | | . | | . |
| 1985 | . | . | | . | | . |
| 1986 | 828216 | 828216 | 46.72 | . | | . |
| 1987 | 1044487 | 1044487 | 48.70 | 2,549 | 2,549 | 1.80 |
| 1988 | 1269341 | 1269341 | 50.88 | NA | 2,720* | 1.82 |
| 1989 | 1630357 | 1630357 | 55.04 | NA | 2,892* | 1.78 |
| 1990 | 1718407 | 1718407 | 53.38 | 3,063 | 3,063 | 1.53 |
| 1991 | . | 2145454* | 56.19* | 2,036 | 2,036 | .95 |
| 1992 | 2572501 | 2572501 | 58.24 | 9,324 | 9,324 | 4.08 |
| 1993 | 2953791 | 2953791 | 60.14 | 13,280 | 13,280 | 5.54 |
| 1994 | 3445542 | 3445542 | 58.20 | 14,610 | 14,610 | 5.49 |
| 1995 | 3976198 | 3976198 | 58.65 | 15,758 | 15,758 | 5.40 |
| 1996 | 4345563 | 4345563 | 59.25 | 17,005 | 17,005 | 5.34 |
| 1997 | 4465401 | 4465401 | 58.06 | 15,339 | 15,339 | 4.53 |
| 1998 | 4344478 | 4344478 | 57.16 | 13,059 | 13,059 | 3.79 |
| 1999 | 4621822 | 4621822 | 56.82 | 16,799 | 16,799 | 4.63 |
| 2000 | 4453098 | 4453098 | 57.04 | 22,648 | 22,648 | 6.59 |

Source: 1. Department of Labour Protection and Social Welfare, MOLSW

* Estimated by linear interpolation method

Table 3.8: Hypothetical data for multiple regression of Thailand work injury rate

| Year | INJURY | GDPGT | NONAGRI | D3 | D1 | D2 | INS | WCF | BUDGET | MCON |
|------|--------|--------|---------|----|----|----|------|-------|--------|-------|
| 1981 | 35.72 | NA | 79.95 | 0 | 0 | 0 | NA | 53.36 | NA | NA |
| 1982 | 36.37 | 5.40 | 80.50 | 0 | 0 | 0 | NA | 51.46 | 13.89 | NA |
| 1983 | 40.01 | 5.60 | 80.65 | 0 | 0 | 0 | NA | 51.05 | 10.47 | NA |
| 1984 | 41.30 | 5.80 | 80.89 | 0 | 0 | 0 | NA | 57.43 | 9.82 | NA |
| 1985 | 37.04 | 4.60 | 80.92 | 0 | 1 | 0 | NA | 62.29 | 10.98 | NA |
| 1986 | 32.56 | 5.50 | 81.85 | 0 | 1 | 0 | NA | 66.55 | 12.18 | 46.72 |
| 1987 | 35.41 | 9.50 | 83.42 | 0 | 1 | 0 | 1.80 | 57.47 | 11.80 | 48.70 |
| 1988 | 37.05 | 13.30 | 83.82 | 0 | 1 | 0 | 1.82 | 53.96 | 15.81 | 50.88 |
| 1989 | 38.43 | 12.30 | 84.20 | 0 | 1 | 0 | 1.78 | 56.10 | 16.73 | 55.04 |
| 1990 | 43.67 | 11.60 | 86.37 | 0 | 1 | 0 | 1.53 | 56.78 | 24.33 | 53.40 |
| 1991 | 37.54 | 8.10 | 86.61 | 0 | 1 | 0 | 0.95 | 67.90 | 33.61 | 52.94 |
| 1992 | 43.64 | 8.10 | 87.02 | 0 | 1 | 0 | 4.08 | 68.38 | 45.80 | 58.24 |
| 1993 | 46.65 | 8.30 | 88.30 | 0 | 1 | 0 | 5.54 | 68.32 | 61.91 | 60.14 |
| 1994 | 43.87 | 9.00 | 88.73 | 0 | 1 | 0 | 5.49 | 71.76 | 80.12 | 58.20 |
| 1995 | 44.12 | 9.20 | 89.33 | 0 | 1 | 1 | 5.40 | 72.33 | 93.57 | 58.65 |
| 1996 | 45.27 | 5.90 | 89.51 | 0 | 1 | 1 | 5.34 | 73.98 | 120.04 | 59.25 |
| 1997 | 39.54 | -1.40 | 89.46 | 1 | 1 | 1 | 4.53 | 75.75 | 156.75 | 58.06 |
| 1998 | 36.24 | -10.50 | 88.40 | 1 | 1 | 1 | 3.79 | 67.70 | 207.27 | 57.16 |
| 1999 | 32.32 | 4.40 | 88.66 | 1 | 1 | 1 | 4.63 | 65.42 | 182.60 | 56.82 |
| 2000 | 33.15 | 4.60 | 88.63 | 1 | 1 | 1 | 6.59 | 69.38 | 131.56 | 57.04 |

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